

**REMARKS**

Upon entry of the reply into the record, claims 31-50 will be pending. Of those, claims 31, 41 and 50 are independent.

By this reply, claims 1-5, 7-17, 19-24 and 26-30 have been canceled without prejudice to, or disclaimer of, the subject matter contained therein. Previously, claims 6, 18 and 25 were canceled.

**§ 103 Rejection: Only '519 Patent & Olukotun Ref. Combined**

Beginning on page 3 of the Office Action, claims 1-4, 6, 12-15, 20-21 and 23-26 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,532,519 to Arimilli (the '519 patent) in view of the publication authored by Olukotun et al. (the Olukotun reference). Applicant traverses.

As noted, claims 1-4, 6, 12-15, 20-21 and 23-26 have been canceled, making the rejection thereof moot.

To the extent that the Examiner might consider rejecting new claims 31-50 over the '519 patent and the Olukotun reference, Applicant traverses.

In general, the '519 patent maps a cache unit to different processors. However, the '519 patent will always map a cache unit in the same manner for any processor having access thereto. In other words, the '519 patent does not teach nor does it suggest that a given cache unit can map a first set of main memory address for a first processor and a second set of main memory address for a second processor, where the first and second sets are different. It is also submitted that the Olukotun reference has the same shortcoming.

A distinction of independent claim 31 over each of the '519 patent and the Olukotun reference is a plurality of tables for the plurality of processors, respectively, each table identifying which of the plurality of cache units are available to the corresponding processor, and which of the plurality of partitions are available to the identified cache units, respectively.

Claims 32-40 depend at least indirectly from claim 31, respectively, and possess at least the noted distinction by dependency.

Independent claims 42 and 50 recite features, respectively, that are similar to the noted distinction. Claims 42-49 depend at least indirectly from claim 41, respectively, and possess at least the noted distinction by dependency.

In view of the foregoing discussion, Applicant submits that such a § 103 rejection would be improper.

### **Other § 103 Rejections**

Beginning on pages 8 and 11, respectively, rejections of the remaining claims are made based upon the combination of the '519 patent and the Olukotun reference as modified by each of two tertiary references. More particularly, claims 5, 7-10, 16-17 and 18 are rejected (using as the tertiary reference U.S. Patent No. 5,737,757 to Hassoun et al.) beginning on page 8 while claims 11 and 19 are rejected (using as the tertiary reference the Handy reference) beginning on page 11. Applicant traverses.

Again, claims 5, 7-10, 16-17 and 18 have been canceled, making their rejections moot.

To the extent that the Examiner might consider rejecting new claims 31-50 based upon the noted three-way combinations of references, Applicant traverses. Neither of the respective tertiary references discloses the distinctions over the combination of the '519 patent and the Olukotun reference, noted above.

In view of the foregoing discussion, Applicant submits that such § 103 rejections would be improper.

**CONCLUSION**

The issues in the case are considered to be resolved. Accordingly, Applicant again requests a Notice of Allowability.

**Person to Contact**


In the event that any matters remain at issue in the application, the Examiners are invited to contact the undersigned at (703) 668-8000 in the Northern Virginia area, for the purpose of a telephonic interview.

Pursuant to 37 C.F.R. 1.17 and 1.136(a), the Applicant respectfully petitions for a two (2) month extension of time for filing a response in connection with the present application, and the required fee of \$430.00 is attached

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-2025 for any additional fees under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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